

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A package for a light emitting element comprising:
a package main body having a bottom face on which a light emitting element is arranged and a concave portion formed in an inverted truncated cone shape on an inner wall face intersecting with the bottom face by a predetermined angle; and
a translucent member ~~filled~~ provided in the concave portion of the package main ~~body, body;~~
wherein the inner wall face provides diffuse reflection, and
wherein the angle between the inner wall face composing the concave portion and the bottom face is selected within $\pm 15^\circ$ of the incident critical angle in which a direct light radiated from the light emitting element undergoes total reflection at the interface between the translucent member and air.
2. (Currently Amended) A package for a light emitting element according to claim 1, wherein the package main body is composed of resin or ceramic.
3. (Currently Amended) A package for a light emitting element according to claim 2, wherein each of the resin or the ceramic is composed of white resin or white ceramic respectively.
4. (Currently Amended) A package for a light emitting element according to claim 3, wherein the white resin is composed of polyphthalamide resin or silicone resin.
5. (Currently Amended) A package for a light emitting element according to claim 1, wherein the reflectivity of the inner wall face of the concave portion is 60% or higher.
6. (Currently Amended) A package for a light emitting element according to claim 1, further ~~comprising;~~ comprising:

-on the bottom portion of the concave portion of the package main body, a lead frame mounting the light emitting element thereon is buried, a part of the lead frame is exposed by a recess portion formed on the bottom face of the concave portion and on the inner wall face.

7. (Currently Amended) A package for a light emitting element according to claim 6, wherein the package main body is composed of resin or ceramic.

8. (Currently Amended) A package for a light emitting element according to claim 7, wherein each of the resin or the ceramic is composed of white resin or white ceramic respectively.

9. (Currently Amended) A package for a light emitting element according to claim 8, wherein the white resin is composed of polyphthalamide resin or silicone resin.

10. (Currently Amended) A package for a light emitting element according to claim 9, wherein the reflectivity of the inner wall face of the concave portion is 60% or higher.

11. (Currently Amended) A package for a light emitting element comprising:
a package main body where a plurality of peripheral concave portions are formed around a central concave portion in which a light emitting element is arranged on the bottom portion;
and

a translucent member ~~filled~~ provided in the central concave portion and the plurality of peripheral concave portions in common,

the central concave portion ~~is-being~~ composed of a bottom face on which the light emitting element is arranged ~~thereon~~, and an inner wall face intersecting with the bottom face with a predetermined angle in an inverted truncated cone shape,

wherein the inner wall face provides diffuse reflection, and

wherein the angle between the inner wall face and the bottom face is selected within $\pm 15^\circ$ of the incident critical angle in which a direct light radiated from the light emitting element undergoes total reflection at the interface between the translucent member and air, the angle

between the inner wall face of the plurality of peripheral concave portions and the bottom face is set nearly equal to the corresponding angle of the central concave portion.

12. (Currently Amended) A package for a light emitting element according to claim 11, further comprising:

in the plurality of peripheral concave portions, the peripheral concave portions located at ~~a far~~ positions farther from the central concave portion are built to make the position of the bottom portion higher compared with the peripheral concave portions located at a nearer position.

13. (Currently Amended) A package for a light emitting element according to claim 11, wherein the plurality of peripheral concave portions are arranged to form a plurality of concentric circles around the central concave portions.

14. (Currently Amended) A package for a light emitting element according to claim 12, wherein the plurality of peripheral concave portions have nearly equal opening diameters and depths, and have cross sections formed in nearly inverted cone shape, the bottom portion of the peripheral concave portion arranged on the outer concentric circles are located in a higher position than those arranged on inner concentric circles.

15. (Currently Amended) A package for a light emitting element according to claim 14, wherein the package main body is composed of resin or ceramic.

16. (Currently Amended) A package for a light emitting element according to claim 15, wherein each of the resin or the ceramic is composed of white resin or white ceramic respectively.

17. (Currently Amended) A package for a light emitting element according to claim 16, wherein the white resin is composed of polyphthalamide resin or silicone resin.

18. (Currently Amended) A package for a light emitting element comprising:

a package main body on which a plurality of concentric circular reflecting grooves are formed around a central concave portion a light emitting element is arranged on bottom portion thereof; and

a translucent member ~~filled~~ provided in the central concave portion and a plurality of reflecting grooves which are formed on the package main body in common; the central concave portion is formed in an inverted truncated cone shape by a bottom face on which the light emitting element is arranged ~~thereon~~, and an inner wall face intersecting with the bottom face with a predetermined angle, the angle between the inner wall face and the bottom face is selected within $\pm 15^\circ$ of the incident critical angle in which a direct light radiated from the light emitting element undergoes total reflection at the interface between the translucent member and air, the angles between plurality of inner wall face and the bottom face of the peripheral concave portions are nearly equal to the corresponding angles of the central concave portions.

19. (Currently Amended) A package for a light emitting element according to claim 18, wherein the package main body is composed of resin or ceramic.

20. (Currently Amended) A package for a light emitting element according to claim 19, wherein each of the resin or the ceramic is composed of white resin or white ceramic respectively.

21. (Currently Amended) A package for a light emitting element according to claim 20, wherein the white resin is composed of polyphthalamide resin or silicone resin.

22. (Currently Amended) A manufacturing method of a package of a light emitting element comprising:

preparing a package main body composed of a bottom face on which the light emitting element is arranged ~~thereon~~ and a concave portion which is formed in an inverted truncated cone shape on an inner wall face intersecting with the bottom face with a predetermined angle;

preparing a translucent member filled in the concave portion;

processing the inner wall face so as to provide diffuse reflection; and

selecting the angle between the inner wall face composing the concave portion and the bottom face to be within $\pm 15^\circ$ of the incident critical angle in which a direct light radiated from the light emitting element undergoes total reflection at the interface between the translucent member and air.